

EUROPEAN MIDDLEWARE INITIATIVE

MNA2.3.3 - TRAINING MATERIAL AND ONLINE COURSES

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I. DELIVERY SLIP

	Name	Partner/Activity	Date
From	Kathryn Cassidy	TCD	30/10/2012
Approved by	PEB	-	06/11/2012

II. DOCUMENT LOG

Issue	Date	Comment	Author/Partner
1	30/10/2012	Milestone has been achieved.	Kathryn Cassidy/TCD
2	31/10/2012	Minor revisions after NA2 review	Emidio Giorgio/INFN
3	06/11/2012	Responses to reviewer comments	Kathryn Cassidy/TCD
4	06/11/2012	v1.0 PEB approved version.	PEB

III. DOCUMENT CHANGE RECORD

Issue	Item	Reason for Change
1		
2		

IV. DOCUMENT AMENDMENT PROCEDURE

This document can be amended by the authors further to any feedback from other teams or people. Minor changes, such as spelling corrections, content formatting or minor text re-organization not affecting the content and meaning of the document can be applied by the authors without peer review. Other changes must be submitted for peer review and to the EMI PEB for approval.

When the document is modified for any reason, its version number shall be incremented accordingly. The document version number shall follow the standard EMI conventions for document versioning. The document shall be maintained in the CERN CDS repository and be made accessible through the OpenAIRE portal.

V. GLOSSARY

Acronym	Long Name
NA2	Networking Activity 2 (work-package within EMI responsible for training)
VOMS	Virtual Organisation Membership Service
CA	Certification Authority
CREAM	Computing Resource Execution And Management
BDII	Berkeley Database Information Index
WMS	Workload Management System
DPM	Disk Pool Manager
YAIM	YAIM Ain't an Installation Manager
US	United States

The complete EMI glossary is available at <https://twiki.cern.ch/twiki/bin/view/EMI/EmiGlossary> .

VI. COPYRIGHT NOTICE

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MILESTONE REPORT

This milestone relates to the availability of training material and on-line courses and videos. These are an essential support to the training activities within EMI, thus NA2 aims to ensure that materials in the form of documentation, training materials (e.g. powerpoint slides from face-to-face training sessions), and, on-line self-paced courses and tutorials in the form of video webcasts and webpages are available to the project's users.

This report describes the enhancements of the available content from that reported in MNA2.3.2.

1.1. DOCUMENTATION LIBRARY

Milestone report MNA2.3.2 [R1] described the EMI Documentation Library, a LifeRay portlet with MySQL database back-end which allows searchable access to EMI product documentation [R2].

For the release of EMI 2 in May 2012, a thorough review of the documentation throughout the project was undertaken. The documentation review is carried out jointly by NA2 and SA2. It reviews documentation produced by the product teams to ensure that it complies with the minimum documentation requirements as specified in the EMI documentation Policy [R3].

Over 200 new entries were made in the documentation library to point to the updated documentation for the products of the EMI 2 release. These typically included a functional description, software specification documents, guides for system administrators, users and application developers, troubleshooting guides, etc.

In addition, a new version of the documentation library LifeRay portlet was developed by NA2 which introduced the ability to insert and edit documents' metadata, as well as enhanced search functionality.

1.2. ONLINE USER TUTORIALS

Since the previous milestone report, four new user tutorials and six video tutorials are now available on the EMI website. Three further user tutorials are in development and due to be made available soon.

An introduction to installing EMI components [R4] has been created which describes how to configure the necessary repositories, install and set up the prerequisites, and install EMI packages and metapackages from the EMI yum repository. This is complemented by a tutorial covering Digital Certificates and VOMS [R5] which describes the CA certificates installation, obtaining and installing host and user certificates.

The two tutorials described above aim to provide the necessary knowledge to install the majority of EMI components, however, further tutorials covering in more detail the installation and configuration of the most widely used components are also in development. The first of these, a CREAM installation and configuration tutorial [R6] is already completed. Similar tutorials covering the BDII [R7], WMS [R8] and DPM [R9] are being finalized.

EMI has entered into a collaboration with the FutureGrid project to allow EMI software and services to be made available on the FutureGrid cloud infrastructure. The aim of this collaboration is to provide a training infrastructure which can be used to introduce US-based grid users to the EMI middleware, and also to allow self-paced learners world-wide to gain access to hosts running EMI software for training purposes. Virtual machines have been made available for some EMI components and online tutorials created describing their use. The first tutorial covers UNICORE and it has been made available on the FutureGrid portal [R10] as well as the EMI website [R11].

The material in all of these tutorials is being improved and updated on an ongoing basis.

Finally, six new video tutorials based on recordings of face-to-face training sessions have also been made available [R12]. These cover YAIM, BDII, CREAM, WMS, DPM and VOMS.

The production of an online 'clickable' architecture diagram as mentioned in previous milestone reports was not further progressed during this period due to the lack of a suitable high-level architecture diagram. This will be revisited in the last year of the project when the architecture document becomes available.

1.3. IN-REACH TRAINING MATERIAL

As described in MNA2.3.2, recordings of EMI in-reach training sessions, that is, training sessions aimed at members of the EMI project, have also been made available via the EMI website. Two in-reach training sessions were held during this period, and their recordings have been linked to the EMI in-reach training webpage [R13].

1.4. TRAINING MATERIAL FROM FACE-TO-FACE EVENTS

EMI has organised, or been involved in, eight training sessions since the previous milestone report. For each of these training sessions new materials have been created in the form of power point presentations, examples, practical exercises, etc. These materials are available on the agenda pages of the events at which they were held; the EMI Technical Conference / EGI Community Forum 2012 [R14], the EGI Technical Forum 2012 [R15], the GridKa School 2012 [R16] and the VOMS Recent Developments online training event organised jointly with EGI [R17].

REFERENCES

R1	http://cdsweb.cern.ch/record/1277578
R2	http://www.eu-emi.eu/documentation
R3	https://twiki.cern.ch/twiki/bin/view/EMI/EMISa2DocumentationPolicy
R4	http://www.eu-emi.eu/training/emi-2-installation
R5	http://www.eu-emi.eu/training/cert-tutorial
R6	http://www.eu-emi.eu/training/cream-tutorial
R7	http://www.eu-emi.eu/training/bdi-tutorial
R8	http://www.eu-emi.eu/training/wms-tutorial
R9	http://www.eu-emi.eu/training/dpm-tutorial
R10	https://portal.futuregrid.org/manual/emi
R11	http://www.eu-emi.eu/training/futuregrid
R12	http://www.eu-emi.eu/training/webcasts
R13	http://www.eu-emi.eu/in-reach-training
R14	https://indico.egi.eu/indico/conferenceTimeTable.py?confId=679#20120326
R15	https://indico.egi.eu/indico/conferenceTimeTable.py?confId=1019#20120917
R16	https://indico.scc.kit.edu/indico/conferenceOtherViews.py?view=standard&confId=6
R17	https://indico.egi.eu/indico/conferenceDisplay.py?confId=1103